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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/591,938	01/30/2007	Makoto Sasaki	782_236	4527
25191 BURR & BRO	7590 02/20/200 DWN	EXAMINER		
PO BOX 7068		LEGASSE JR, FRANCIS M		
SYRACUSE,	NY 13261-7068		ART UNIT	PAPER NUMBER
			2878	
			MAIL DATE	DELIVERY MODE
			02/20/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)		
10/591,938	SASAKI, MAKOTO		
Examiner	Art Unit		
RANCIS M. LEGASSE JR	2878		

	FRANCIS M. LEGASSE JR	2878					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MALLING DATE OF THIS COMMUNICATION. E-tienson of time may be available under the provisions of 37 GFt 1,1360, in no event, however, may a reply be timely fised after SK (8) MONTHS from the making date of this communication. If NO gend or may be specified adove, the measurem statutory period will apply and will expire SK (8) MONTHS from the making date of this communication. If NO gend of may be specified adove, the measurem statutory period will apply and will expire SK (8) MONTHS from the making date of this communication. If NO gend of the Communication of the specified of the specified on the specified or							
Status							
1) Responsive to communication(s) filed on	action is non-final. nce except for formal matters, pro		e merits is				
Disposition of Claims							
4) Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdrav 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or							
Application Papers							
9)☑ The specification is objected to by the Examine 10)☑ The drawing(s) filed on <u>07 September 2006</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Ex	are: a)⊠ accepted or b)⊡ objec drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	a 37 CFR 1.85(a). ected to. See 37 C	FR 1.121(d).				
Priority under 35 U.S.C. § 119							
12) △ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) △ All b) ─ Some * c) ─ None of: 1. △ Certified copies of the priority documents have been received. 2. ─ Certified copies of the priority documents have been received in Application No 3. ─ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Professor's Petent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da						

Information Disclosure Statement(s) (PTO/SE/08)
 Paper No(s)/Mail Date 7 September 2006.

5) Notice of Informal Patent Application 6) Other: _____

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DETAILED ACTION

Title

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 2 and 4, Applicant recites, "a plurality of plate electrodes of an array arrangement so as to neighbor to each other at vertical direction, and support electrodes electrically connecting said plate electrodes neighboring to each other at vertical direction together". It is unclear what Applicant is referring to with the phrase, "neighboring to each other at vertical direction together". Applicant is required to clearly present the claimed subject matter.

Claim 3 is rejected for inheriting the indefiniteness of the claim from which it depends.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

Claim 4, to the extent taught and understood, is rejected under 35 U.S.C. 102(b) as being anticipated by Murano (Japanese Patent No. JP 07336495).

Regarding claim 4, Shunji (figure b) discloses an output electrode array for a photoelectric imaging sensor (2) having a plurality of plate electrodes (2b, 1a) of an array arrangement so as to neighbor to each other at vertical direction, and support electrodes (4) electrically connecting said plate electrodes (2b, 1a) neighboring to each other at vertical direction together.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter perfains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fisher et al. (US Patent No. 3,668,388, "Fisher", hereinafter).

Regarding claim 1, Fisher (Figure 1) a photoelectric imaging sensor comprising:

- a photo cathode (19) converting an incident light into photoelectrons;
- a photomultiplier (11), kept vacuum inside thereof, intensifying photoelectrons converted by said photo cathode (K);
- an output electrode array (63, 65, 67) at which photoelectrons intensified by said photomultiplier (11) arrives; and

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 electrically connecting said output electrode array (63, 65, 67) to pick-up electrodes (81, 82, 83) arranged outside said photomultiplier (11).

Fisher fails to explicitly teach the means for electrically connecting the output electrode array and the pickup electrodes.

It is common knowledge in the art to connect electrodes with a specific connection means such as solder.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a particular connection means such as solder in the device of Fisher because it will create a permanent connection between the electrodes, thus ensuring that the electrical signal will arrive at the desired final location.

Regarding claim 3, Fisher as modified in claim 1 (Figure 1) teaches a photoelectric imaging sensor wherein said means for electrically connecting said electrodes are metal bulbs (i.e. solder joints).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Francis M. LeGasse Jr whose telephone number is (571) 272-9798. The examiner can normally be reached on Monday through Thursday 7:00 am to 5:30 pm E.S.T.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Y. Epps can be reached on (571) 272-2328. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Francis M. LeGasse Jr. Patent Examiner AU 2878 571.272.9798

/Georgia Y Epps/

Supervisory Patent Examiner, Art Unit 2878